Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY

ACIDULADE (110001)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufactured For:	Emergency Telephone Number
Beaver Research Company	1-800-255-3924 (Chem Tel)
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information
3700 E. Kilgore Road, Portage, MI 49002	269-382-0133
HMIS RATINGS: Health: 3 (Serious); Flammability: 0 (Insignificant); Reactivity: 0 (Minimal); Protection: C (Safety glasses, gloves, synthetic apron)	Date Prepared: 4/16/98
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	STEL	TLV	Carcinogen (OSHA,TP,IARC)	% (optional)
Phosphoric Acid	7664-38-2	3mg/m^3	1mg/m^3	none	<20%
Didecyl dimethyl ammonium chloride	7137-51-5	none	no		1.35%
n-alkyl(C14-50%,C12-40%,C16-10%) dimethyl benzyl ammonium chloride	8001-54-5	none	no		0.9%

Reportable for SARA Title III, S.313 (Form R): Phosphoric Acid.

Section III - Physical/Chemical Characteristics

Boiling Point	>180°F	Specific Gravity (H_2O = 1)	1.1
Vapor Pressure (mm Hg)	N/A	Viscosity, Cp. @ 25°C	B-D Gardner
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water	pH	<1
Complete	Total VOC	N/A

Appearance and Odor

Aqua-blue liquid with fresh odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None	Non-flammable	N/A	N/A

Extinguishing Media

N/A

Special Fire Fighting Procedures

Avoid skin and eye contact, and breathing of vapors. Wear head and body protection and acid respirator if exposure to liquid is likely. Where possible avoid water run-off into streams, lakes, ponds, etc.

Unusual Fire and Explosion Hazards

N/A

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	N/A
	Stable	X		

Incompatibility (Materials to Avoid)

Strong alkalies, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.), chlorine type bleach.

Hazardous Decomposition or Byproducts

Possible phosphorus oxide fumes at fire temperatures. Contact with active metals can release flammable gas.

Hazardous Polymerization	May Occur		Conditions to Avoid	N/A
	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	--

Health Hazards (Acute and Chronic)

Inhalation: Breathing of vapor can cause respiratory irritation and inflammation. **Skin**: Corrosive. Causes irritation and burns. **Eyes**: Corrosive. Causes eye damage. **Ingestion**: Corrosive. Causes irritation and burning in mouth and throat.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	N/A

Signs and Symptoms of Exposure

See above “Health Hazards”.

Medical Conditions Generally Aggravated by Exposure

None.

Emergency and First Aid Procedure

Inhalation: Remove party to fresh air and give artificial respiration or oxygen if needed. Get medical attention. **Skin**: Flush with water for 15 minutes. Get medical attention if irritation persists. **Eyes**: Flush immediately with water for 15 minutes. Get prompt medical attention. **Ingestion**: If swallowed, drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection. The material is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless under a NPDES permit.

Waste Disposal Method

If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste. The material is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless under a NPDES permit.

Precautions to be Taken in Handling and Storage

Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service. Use a respirator if area is poorly ventilated.

Other Precautions

Empty Containers: Triple rinse before handling and disposal. Do not reuse.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Wear approved acid vapor/mist respirator if exposure is likely.

Ventilation				
	Local Exhaust	Yes	Special	N/A
	Mechanical(General)	N/A	Other	N/A

Protective Gloves	Eye Protection
Acid resistant protective gloves.	Splash proof goggles or side shield safety glasses.

Other Protective Clothing or Equipment

Wear acid resistant boots and clothing.

Work/Hygienic Practices

Remove contaminated clothing and launder before reuse. Discard contaminated shoes. Provide convenient eyewash stations.